

Title (en)
Three phase current sensor

Title (de)
Dreiphasiger Stromsensor

Title (fr)
Capteur de courant triphasé

Publication
EP 1752776 A1 20070214 (FR)

Application
EP 05405475 A 20050812

Priority
EP 05405475 A 20050812

Abstract (en)
The sensor has magnetic measuring devices each comprising a magnetic circuit (M) with two air gaps, and one Hall effect sensor disposed in each air gap. The devices are positioned on both sides of a central conductor part or a cavity for the insertion of a central conductor forming one of three phases of a conduction system. The air gaps of each magnetic circuit are disposed in a same plane, and the measuring devices are mounted on a common support plate (5). An independent claim is also included for a method for measuring current circulating in a three phase conduction system.

IPC 8 full level
G01R 15/20 (2006.01)

CPC (source: EP US)
G01R 15/207 (2013.01 - EP US); **G01R 15/202** (2013.01 - EP US)

Citation (search report)

- [YA] WO 9427157 A1 19941124 - ABB STROEMBERG KOJEET OY [FI], et al
- [Y] GB 825137 A 19591209 - SIEMENS AG
- [YA] EP 0597404 A2 19940518 - ABB PATENT GMBH [DE]
- [A] DE 4215900 C1 19931223 - SIEMENS AG [DE]

Cited by
CN105606876A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
EP 1752776 A1 20070214; AT E456803 T1 20100215; CN 101238378 A 20080806; CN 101238378 B 20111130;
DE 602006012057 D1 20100318; EP 1913406 A1 20080423; EP 1913406 B1 20100127; JP 2009505056 A 20090205;
US 2008231255 A1 20080925; US 7821252 B2 20101026; WO 2007020500 A1 20070222

DOCDB simple family (application)
EP 05405475 A 20050812; AT 06779943 T 20060728; CN 200680028702 A 20060728; DE 602006012057 T 20060728;
EP 06779943 A 20060728; IB 2006002163 W 20060728; JP 2008525655 A 20060728; US 6305206 A 20060728